

CANTILEVER TYPE VERTICAL AXIS WIND TURBINE

ABSTRACT

The invention seeks to provide a cantilever type vertical axis wind turbine capable of reducing repeated load caused on a rotary shaft and having advanced vibration stability and low-noise property.

It comprises an outer race side rotor 17 of the vertical axis wind turbine 10 producing a rotational torque with wind, a cantilevered inner race side stationary column 10 for supporting the outer race side rotor 17 of the vertical axis wind turbine 10 through bearings 30a, 30b and 30c for supporting a force in a radial direction, and the bearings 30a, 30b and 30c arranged at positions astride the wind pressure center position on which the wind pressure acts on the outer race side rotor 17 of the vertical axis wind turbine 10 for supporting the outer race side rotor 17 and the inner race side stationary column 14.